

Amendments to the Claims:

Listing of Claims:

Claims 1-18 (canceled).

Claim 19 (new). An optical attachment for a device having a light source, the attachment comprising:

a solid, transparent, colorless, and/or optically clear conductor formed with a light-admission surface and a light-exit surface;

a transparent, colorless and/or optically clear cushion pad adjoining said light-exit surface of said conductor in a form-locking relationship.

Claim 20 (new). The attachment according to claim 19, wherein said conductor is a homogeneous body and said light-admission surface is substantially flat.

Claim 21 (new). The attachment according to claim 19, wherein said cushion pad is a homogeneous body.

Claim 22 (new). The attachment according to claim 19, wherein said cushion pad is connected at said light-exit surface of said conductor in a material-locking manner.

Claim 23 (new). The attachment according to claim 19 configured for attachment to an illuminating device for illuminating uneven surfaces or to a detection unit with

a light source.

Claim 24 (new). The attachment according to claim 23 configured for illuminating tooth surfaces, and wherein said cushion pad is formed for placement on the tooth surfaces.

Claim 25 (new). The attachment according to claim 23, wherein the detection unit is an intraoral camera.

Claim 26 (new). The attachment according to claim 19, wherein said conductor is formed of a rigid and hard first material.

Claim 27 (new). The attachment according to claim 26, wherein said first material is a glass or plastic material selected from the group consisting of polymethyl methacrylate, polycarbonate, polyamide, styrene acrylnitrile, polystyrene, sealing compounds or casting resins based on epoxide resin, polyurethane resin, and organo-polysiloxane.

Claim 28 (new). The attachment according to claim 26, wherein said first material has a ball-pressure hardness of >100 measured according to ISO 2039-1.

Claim 29 (new). The attachment according to claim 19, wherein said cushion pad is a solid body formed of a ductile, flexible and/or elastic second material.

Claim 30 (new). The attachment according to claim 19, wherein said second material is silicone or a silicone derivative or polyurethane, with a shore-A-hardness of <40.

Claim 31 (new). The attachment according to claim 19, wherein said first material has a higher refractive index than said second material.

Claim 32 (new). The attachment according to claim 19, wherein said pad is a hollow body having a thin casing of a ductile, flexible and/or elastic material filled with a transparent medium.

Claim 33 (new). The attachment according to claim 32, wherein said material of said thin casing is silicone or a silicone derivative or polyurethane, and said transparent medium is a colorless and/or optically clear liquid or a gel.

Claim 34 (new). The attachment according to claim 19, wherein said conductor has a geometric form of a body with an upper part in the form of a cylinder or a parallelepiped, and optionally a lower part molded on or adjoining said upper part with its base centrosymmetrically in one piece in a region of said light exit, and wherein said lower part is in the form of a cone, a truncated cone or a cone with a rounded tip.

Claim 35 (new). The attachment according to claim 19, wherein said conductor is formed in two pieces consisting of an upper part and a lower part, connected to

one another in a material-locking manner.

Claim 36 (new). The attachment according to claim 35, wherein said upper part and said lower part are glued to one another with a transparent, optically clear adhesive having a refractive index between a refractive index of said upper part and a refractive index of said lower part.

Claim 37 (new). The attachment according to claim 35, wherein flanks or a sheathing of said lower part or said light-exit surface have a slope angle relative to an inclination of said light-admission surface of no more than 60° .

Claim 38 (new). The attachment according to claim 37, wherein said slope angle has a maximum of 53° .

Claim 39 (new). The attachment according to claim 37, wherein said slope angle has a maximum of 45° .

Claim 40 (new). The attachment according to claim 35, wherein said cushion pad is formed with a recess complementary to said lower part for accommodating said conductor or said lower part.

Claim 41 (new). The attachment according to claim 35, wherein said lower part has a tip substantially ending in a plane with the surface of said cushion pad facing away from said light-exit surface of said conductor.

Claim 42 (new). The attachment according to claim 19, which further comprises a carrier part for mounting or handling or fastening components attached to said conductor.

Claim 43 (new). The attachment according to claim 42, wherein said conductor is formed with a notch or groove extending in circumferential direction.

Claim 44 (new). The attachment according to claim 19, which comprises a diffusing lens fastened to said carrier part or to said conductor is at or in front of said light-admission surface.

Claim 45 (new). The attachment according to claim 44, wherein said diffusing lens is disposed between said light-admission surface and the light source.

Claim 46 (new). The attachment according to claim 19, wherein the light source is fastened at or in front of the light-admission surface of said conductor.

Claim 47 (new). The attachment according to claim 46, wherein the light source is fastened centrally about a median axis of said conductor.

Claim 48 (new). The attachment according to claim 19 in combination with a detection unit selected from the group consisting of an image-recording device, an image generating device, and a transmitting device, wherein said detection unit is

fastened to or in front of said light-admission surface of said conductor.

Claim 49 (new). The combination according to claim 48, wherein said detection unit is a video camera or a CCD chip fastened to or in front of and centrally or centro-symmetrically to a median axis of a carrier part attached to said conductor.

Claim 50 (new). The attachment according to claim 42, which comprises a handle to be connected to said carrier part, and wherein said carrier part has a recess formed therein through which said conductor is connected in an optically conducting manner with at least one of the detection unit and the light source.

Claim 51 (new). In combination, the attachment according to claim 19, a light source and a detection unit, wherein said light source and said detection unit are integrated in a handle.

Claim 52 (new). The combination according to claim 51, wherein said light source and said detection unit are integrated in a top of said handle in a vicinity of a carrier part.

Claim 53 (new). The combination according to claim 51, wherein one of said light source and said detection unit are disposed outside of said attachment in an external component and are optically connected with said conductor via at least one light transmitting unit provided in said handle or in the top of said handle.

Claim 54 (new). The combination according to claim 53, wherein said light transmitting unit is a mirror or a glass fiber line.

Claim 55 (new). The attachment according to claim 19, wherein a height of said conductor, measured from said light-admission surface to a tip of a lower part thereof, corresponds to a focal length of the detection unit.

Claim 56 (new). The attachment according to claim 19, wherein a height of said conductor, measured from said light-admission surface to a surface of said cushion pad facing away from said conductor, corresponds to a focal length of the detection unit.

Claim 57 (new). In combination with an illuminating device, an attachment device according to claim 19.

Claim 58 (new). In combination with a device for detecting or recording surface features, an attachment device according to claim 19.

Claim 59 (new). In combination with an illuminating device for detecting surface features selected from the group consisting of colors and structures, an attachment device according to claim 19.

Claim 60 (new). In combination with an intraoral camera, an attachment device according to claim 19.